

05 JUN 1979

MEMORANDUM FOR THE RECORD

SUBJECT: SAFE UPS Proposal Evaluation

1. The following criteria will be used to evaluate technical proposals submitted in response to RFP's issued for 60 Hz and 415 Hz UPS equipment to support operations in the new SAFE computer center. Ten year life cycle costs will be evaluated in accordance with the criteria outlined in paragraph 4.

a. Responsiveness to Specifications (60 points total)

(1)	Input frequency	-1
(2)	Input power factor	-2
(3)	Harmonic content	-2
(4)	Maximum input current	-2
(5)	Output voltage adjustment	-3
(6)	Output voltage regulation	-5
(7)	Overload rating	-1
(8)	Output frequency regulation	-1
(9)	Efficiency	-9
(a)	88% and above	-9
(b)	87%	-8
(c)	86%	-7
(d)	85%	3
(e)	84%	1
(f)	83% and below	0

OL 9 2718

(10) Transient response	
(a) 50% load step	-3
(b) Loss of AC input	-4
(c) Return of AC input	-3
(d) Module removal	-4
(e) Battery removal	-2
(f) Battery return	-3
(11) Alarms/meters controls	-5
(12) Document submittal	-8
(13) Equipment layout (site)	-2
b. Reliability (30 points total)	
(1) MTBF modules	-2
(2) MTBF system	-5
(3) MTTR	-3
(4) Data Source	-12
(5) Stress levels	-8
c. Experience/Demonstrated Ability	10

2. Unless otherwise noted, points awarded in each category which evaluates a numerical quantity will be determined by normalization process which weights each response. For example, in response to MTBF for modules Vendor A submits 2000 hours, Vendor B 1500 hours, and Vendor C 1000 hours. The point spread would be determined by normalizing against the most favorable number, in this case 2000 hours.

- a. Vendor A  $\frac{2000}{2000} \times 2 = 2.0$  points
- b. Vendor B  $\frac{1500}{2000} \times 2 = 1.5$  points
- c. Vendor C  $\frac{1000}{2000} \times 2 = 1.0$  points

3. In those areas where a subjective judgment must be made, points will be awarded based on the information contained in the offeror's proposal and information obtained during the plant tours conducted in December 1978. The purpose of the Technical Evaluation is twofold. The main purpose is to determine which vendors are technically responsive to the Government's requirements. The secondary purpose is to identify any vendor who may produce a far superior product which may warrant special consideration by the Government.

4. Life cycle cost will be evaluated in accordance with the following criteria:

a. Life cycle Cost - (50 points total)

(1) Initial cost of UPS hardware (including batteries) and installation - 20

(2) Initial cost of 5-year spare parts - 4

(3) Replacement of spare parts (50% of cost of item 2) - 2

(4) Ten year maintenance costs. First year cost (designated A) to be escalated at 7 1/2 percent per year - 10 points

1.	Year 1	-	A
2.	Year 2	-	1.075A
3.	Year 3	-	1.16A
4.	Year 4	-	1.24A
5.	Year 5	-	1.34A
6.	Year 6	-	1.44A
7.	Year 7	-	1.54A
8.	Year 8	-	1.66A
9.	Year 9	-	1.78A
10.	Year 10	-	1.92A

Total Maintenance  
Cost 14.155A

(5) Special installation cost necessitated by unique requirement of a specific vendor, i.e., special air-conditioning, humidity or dust control -4

(6) Total 10-year energy cost of system at full load. (System input kW x 87,600 hours x \$0.027/kW hours) - 10

Approved For Release 2000/09/14 : CIA-RDP86-01019R000200050039-7

5. Points awarded will be determined by a normalization process which weights each response against the best proposal for a given category.

STATINTL

Chief, Electrical Section, HEB

STATINTL

cc: OL/PD/P&SCB

Distribution:

Orig - OL/RECD/HEB Official  
1 - OL/RECD/HEB Chrono  
1 - OL Reader

STATINTL

OL/RECD/HEB: :mj/7543 (5 July 1979)